

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

ENGINEERING IN GENERAL

F16 ENGINEERING ELEMENTS AND UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS; THERMAL INSULATION IN GENERAL

F16P SAFETY DEVICES IN GENERAL; {SAFETY DEVICES FOR PRESSES}

NOTE

Attention is drawn to the following places:

A01D 75/18	Harvesting machines
A01F 21/00	Threshing machines or baling presses
B02C 23/04	Crushing or disintegrating machines
B21B 33/00	Rolling of metal
B21D 55/00	Working sheet metal or tubes, rods or profiles without essentially removing material
B23B 25/04	Turning-machines
B23Q 11/00	Machine tools
B24B 55/00	Grinding or polishing machines
B25J 19/06	Manipulators
B26D 7/22	Cutting machines
B27G 19/00	Wood saws
B65B 57/00	Packaging machines or apparatus
B65G 43/00	Conveyors
B65H 26/00	Web-advancing mechanisms
B65H 63/00	Handling or winding of thin or filamentary material
D01G 31/00	Treatment of fibres
D01H 13/14	Spinning or twisting
D05B 83/00	Sewing machines
F21V 25/00	Lighting devices.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<u>Devices protecting or preventing injuries to people</u>		3/005	. . {having a movable screen or a sensor influencing the switching system}
1/00	Safety devices independent of the control and operation of any machine (protective devices for the eyes or ears, worn on the body or carried in the hand, A61F 9/00, A61F 11/00)	3/006	. . {having a screen moving with the machine and moving the operator out of danger, or restraining the operator, without influencing the switching system}
1/005	. {Guards for rolls in calendaring or other roll machines, e.g. nip guards, finger guards}	3/008	. {Devices for directly stopping or interrupting the drive or gear in case of danger to the machine, e.g. devices with clutches}
1/02	. Fixed screens or hoods	3/02	. Screens or other safety members moving in synchronism with members which move to and fro
1/04	. Screens or hoods rotating with rotary shafts	3/04	. . for machines with parts which approach one another during operation, e.g. for stamping presses
1/06	. specially designed for welding	3/06	. . . in which body parts of the operator are removed from the danger zone on approach of the machine parts
3/00	Safety devices acting in conjunction with the control or operation of a machine; Control arrangements requiring the simultaneous use of two or more parts of the body (F16P 5/00 takes precedence)	3/08	. in connection with the locking of doors, covers, guards, or like members giving access to moving machine parts
3/001	. {Safety devices for guarding the human operator of punch presses or like machine tools performing an opening and closing travel}	3/10	. . in which the operation of locking the door or other member causes the machine to start
3/003	. . {by application of a specific control arrangement, e.g. specific switching systems or two-hand control}		

- 3/12 . with means, e.g. feelers, which in case of the presence of a body part of a person in or near the danger zone influence the control or operation of the machine ([F16P 3/08](#) takes precedence)
- 3/125 . . {Guards for rolls in calendering or other roll machines, e.g. nip guards, finger guards}
- 3/14 . . the means being photocells or other devices sensitive without mechanical contact
- 3/141 . . . {using sound propagation, e.g. sonar}
- 3/142 . . . {using image capturing devices}
- 3/144 . . . {using light grids}
- 3/145 . . . {using magnetic technology}
- 3/147 . . . {using electro-magnetic technology, e.g. tags or radar}
- 3/148 . . . {using capacitive technology}
- 3/16 . . with feeling members moved by the machine
- 3/18 . Control arrangements requiring the use of both hands
- 3/20 . . for electric control systems
- 3/22 . . for hydraulic or pneumatic control systems
- 3/24 . . for mechanical controls
- 5/00** **Emergency means for rendering ineffective a coupling conveying reciprocating movement if the motion of the driven part is prematurely resisted**
- 5/005 . {Overload protection by energy absorbing components, e.g. breaker blocks, shear sections}
- 7/00** **Emergency devices preventing damage to a machine or apparatus ([F16P 1/00](#), [F16P 3/00](#), [F16P 5/00](#) take precedence; indicating means, [see the appropriate classes](#))**
- 7/02 . by causing the machine to stop on the occurrence of dangerous conditions therein ([devices in bearings affected by abnormal conditions \[F16C\]\(#\)](#))